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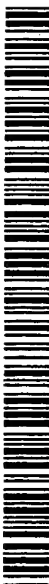
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(54) Title: METHOD FOR TREATING AND PREVENTING BACTERIAL INFECTION

(57) Abstract: The present invention provides methods and compositions for treating bacterial infections, especially infections by opportunistic pathogens in a subject by administering a compound that inhibits syndecan-1 shedding. The invention is based on the discovery that two diverse opportunistic pathogens, *S. aureus* and *P. aeruginosa*, enhance syndecan-1 shedding and that this shedding is critical for *Pseudomonas* pathogenesis via the respiratory tract. The discovery is also based on the surprising finding that inhibition of syndecan-1 shedding prevents *Pseudomonas* pneumonia in a mammalian model. The *P. aeruginosa* shedding enhancer has been purified and identified as the mature 20 kDa LasA protein, a known virulence factor of *P. aeruginosa*.